

RESCUE

55

FACT FILES ON:

- Fighting fires
- ➤ The lunar 'lifeboat'
- Ejector seats
- War against poachers
- ► Rescue services
- Cleaning up oil spills

GIANT POSTER

SAVING THE TIGER

THREE PROJECTS

UK £1.99 IR£2.25 Aust \$4,95 NZ \$5.95 (inc. GST) Malaysia RM5.90 Sing \$5.95 Malta Lm1.75 S. Africa R8.95

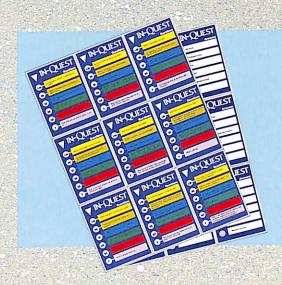
REQ&ACA

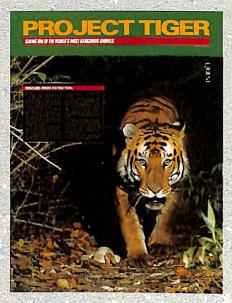


# INSIDE THIS PACK

# **FACT FILES**

► Emergency services ►
Nuclear waste ► Putting
out fires ► Inside an
ambulance ► Wildlife in
peril ► Rescue in Space
► Undersea escape





TIGER POSTER

In-Quest 108 more questions and answers

SCIENTIFIC PROJECTS

# COMING IN QUEST 34 FLIGHT II



# **FACT FILES INCLUDE:**

- ► Tilt-rotor aircraft
- ► Man-powered flight
- ► Air displays
- ► Aerial warfare
- **▶** Gliding machines
- ► Tomorrow's airport
- **▶** Stunt kites
- ► Currents and thermals





POSTER The bat

MODEL Working glider





### LEISURE: THE MOST EXPENSIVE FILMS MADE

Film	Year	Production cost (US\$)
True Lies Terminator 2	1994 1991	110,000,000 95,000,000
Batman Returns	1992	80,000,000
Rambo III Superman	1988 1978	58,000,000 55,000,000
Superman II	1981	54,000,000
Who Framed Roger Rabbit? The Adventures of Baron Munchausen	1988 1989	53,000,000 52,000,000
Ishtar	1987	45,000,000
Cleopatra	1963	44,000,000

AUTOMATION: LARGEST PRODUCERS OF AUTOMATION: TOP FIVE CAR PRODUCERS

CONSUMER DURABLES

Country	Item	Amount	Country	Cars per year
Japan	Calculators	52,435,000	USA	7,700,000
Japan	Pianos	360,000	Japan	7,073,000
USSR	Refrigerators	5,933,000	West Germany	3,788,000
USSR	Socks	976,000,000	France	2,910,000
Japan	Typewriters	2,998,000	USSR	1,300,000

# RESCUE: NATIONAL MANNED SPACEFLIGHTS RESCUE: SPACE FATALITIES

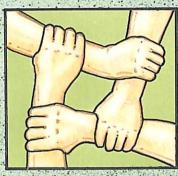
Country	Days	No. of flights	Name	Country	Spacecraft	Date
USSR USA France West Germany Canada Czechoslovakia Poland India East Germany Hungary Romania Cuba Mongolia Vietnam Saudi Arabia Holland Mexico Bulgaria	1964 479 15 10 8 8 8 8 8 8 8 8 8 7 7	60 55 2 (1 USSR, 1 USA) 2 (USA) 1 (USA) 1 (USSR) 1 (USSR)	Roger Chaffee Gus Grissom Edward White Vladimir Komarov Georgi Dobrovolsky Vladislav Volkov Viktor Patsayev Dick Scobee Mike Smith Judith Resnick Elison Onizuka Ronald McNair Gregory Jarvis Christa McAullife	USA USA USSR USSR USSR USSR USA USA USA USA USA USA	Apollo 1  " Soyuz 1 Soyuz 11  " Space Shuttle Challenger  " " " " "	27 January 1967 29 June 1967 24 April 1971 28 January 1986

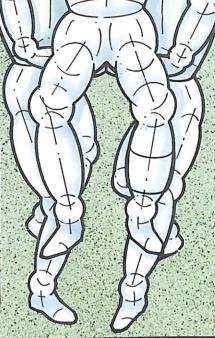
 How can you carry an injured person to safety?

# A TWO-PERSON SEAT

Combined efforts can safely carry a slightly injured person.

You need two friends to help you practise this and you should not attempt to carry an injured person until you can do this competently. In any case, you should never attempt to move someone who is unconscious or hadly hurt. First, make a seat by gripping your left wrist with you right hand and your partner's right wrist with your left hand. Then, lift the third person as shown.

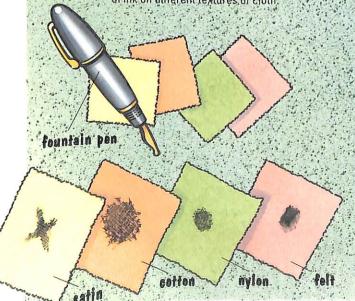




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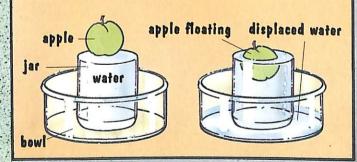
### MATERIAL ABSORPTION

You need about four different pieces of fabric and a fountain pen. Make sure that each of the fabrics are a different thickness - say, satin, cotton, telt and brushed hylon? Touch the hib on each piece of fabric for ten seconds and see what happens. This experiment demonstrates the capillary action of ink on different fextures of cloth.



# ARCHIMEDES' PRINCIPLE

First weigh the bowl. Put the filled jar into the bowl, then place the apple slowly into the water. Weigh the apple, then weigh the spilled water in the bowl, subtracting the weight of the bowl. They should be equal.



### PROJECT INFORMATION

1 2 3 4 5

Each QUEST project has its own difficulty rating: 1 very simple, 2 simple, 3 intermediate, 4 advanced, 5 complicated.

WARNING!

Every care has been taken to ensure projects are as safe as possible. However, parents should supervise all projects. The publisher can accept no liability for injury.



DRLD'S MOST DANGEROUS ANIMALS SAVING ONE OF THE WO

**QUEST** 

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# NCTION RESCUED FROM EXT

The saving of the tiger in India and Nepal is one of the great wildlife conservation success stories. Hunted by poachers for its skin, poisoned by farmers, its habitat threatened by industrialization, the Indian tiger faced extinction in the early 1970s. A population census revealed that only 1872 remained in the wild.

The response of the Indian government was rapid: a total hunting ban was imposed in 1972, and in 1973 Project Tiger was launched. This drive to save the Tiger received vital impetus from international conservation groups, including the World Wildlife Fund, who commenced to raise \$1,000,000 for vital equipment through its 'Operation Tiger' campaign.

Project Tiger set aside nine reserves with a range of habitats suited to tigers and provided extra rangers and equipment, such as jeeps and radios, for fighting poachers. The results were striking: the tiger population increased by 60 per cent between 1972 and 1979. There are now 15 reserves, covering a total area of 23,437 sq km,

and between five and six thousand Indian tigers living wild.

Of course, conserving a dangerous animal such as the tiger has its disadvantages – each year several deaths are caused by man-eaters. Project Tiger experts have attempted to educate those living near tiger areas on how to deal with tigers – most will only attack as a defensive reaction because they have been surprised or feel threatened. The few, usually sick or old, animals that turn man-eater naturally have to be

saving the tiger also means conserving its prey, such as blackbuck, axis and swamp deer and guar (wild oxen), and its habitat, which can range from dense jungle to swampland, grass-The importance of rescuing a top predator such as the tiger from extinction is twofold

It is this ecosystem approach that has made Project Tiger such a success, setting the pattern for wildlife conservation schemes in the future.

McDougal'Ardea London

to the World Wildlife Fund and the IUCN for assistance